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S6	9	"6961923" "6959441" "6769117" "7047520" "6961923" "6959441" "6769117" ("7047520" ).pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/11/21 10:53
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- 1 PCCTS reference manual: version 1.00
- T. J. Parr, H. G. Dietz, W. E. Cohen

February 1992 ACM SIGPLAN Notices, Volume 27 Issue 2

**Publisher:** ACM Press

Full text available: pdf(3.77

MB)

Additional Information: full citation, citin

2 Understanding memory allocation of scheme programs

Manuel Serrano, Hans-J. Boehm

September 2000 ACM SIGPLAN Notices, Proceedings of the fifth ACN international conference on Functional programming ]

35 Issue 9

**Publisher:** ACM Press

Full text available: pdf(821.49 Additional Information: full citation, abst KB) citings, index ten

Memory is the performance bottleneck of modern architectures. Keeping consumption as low as possible enables fast and unobtrusive applications to estimate the memory use of programs implemented in functional langu the complex translations of some high level constructs, and the use of au

managers. To help understand memory allocation behavior of Scheme prodesigned two complementary tools. The first one reports on frequency of

3 Automating the re-declaration of unneeded globals as private

Amitava Datta, Prabhaker Mateti

March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on App states of the art and practice

**Publisher:** ACM Press

Full text available: pdf(787.97 Additional Information: full citation, reference VD)

<u>KB</u>) review

**Keywords**: formal methods, functional languages, software re-engineeri transformations

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1 Building incremental programs using partial evaluation

R. S. Sundaresh

May 1991 ACM SIGPLAN Notices, Proceedings of the 1991 ACM SIC on Partial evaluation and semantics-based program manipul Volume 26 Issue 9

**Publisher:** ACM Press

Full text available: pdf(782.47 Additional Information: full citation, reference of the result of th KB) index terms

2 MaJIC: compiling MATLAB for speed and responsiveness

George Almási, David Padua

May 2002 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD] Issue 5

**Publisher:** ACM Press

Full text available: pdf(619.32 Additional Information: full citation, abst KB) citings, index ten

This paper presents and evaluates techniques to improve the execution p MATLAB. Previous efforts concentrated on source to source translation

compilation; **MaJIC** provides an interactive frontend that looks like MA compiles/optimizes code behind the scenes in real time, employing a cortime and speculative ahead-of-time compilation. Performance results sho mixture of these two techniques can yield near-zero response time as ...

3 Programmable syntax macros

aniel Weise, Roger Crew

June 1993 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD Issue 6

**Publisher:** ACM Press

Full text available: pdf(1.09 Additional Information: full citation, abst citings, index ten

Lisp has shown that a programmable syntax macro system acts as an adj that gives the programmer important and powerful abstraction facilities i language. Unlike simple token substitution macros, such as are provided preprocessor), syntax macros operate on Abstract Syntax Trees (ASTs). syntax macro systems have not yet been developed for syntactically rich C because rich concrete syntax requires the manual con ...

4 Using types to analyze and optimize object-oriented programs

Amer Diwan, Kathryn S. McKinley, J. Eliot B. Moss
January 2001 ACM Transactions on Programming Languages and Syst
Volume 23 Issue 1

**Publisher:** ACM Press

Full text available: pdf(414.51 Additional Information: full citation, abst KB) citings, index ten

Object-oriented programming languages provide many software enginee these often come at a performance cost. Object-oriented programs make method invocations and pointer dereferences, both of which are potentia machines. We show how to use types to produce effective, yet simple, te reduce the costs of these features in Modula-3, a statically typed, object-Our compiler performs type-based alias analysis to ...

**Keywords**: alias analysis, classes and objects, method invocation, object polymorphism, redundancy elimination

- 5 Array morphology
- Robert Bernecky

September 1993 ACM SIGAPL APL Quote Quad, Proceedings of the i conference on APL APL '93, Volume 24 Issue 1

**Publisher:** ACM Press

Full text available: pdf(1.02 Additional Information: full citation, abst citings, index ten

Array morphology is the study of the form, structure, and evolution of ar annotation for a program written in an applicative array language is an a for the program, amended with information about the arrays created by t notations are useful in the production of efficient compiled code for appl programs. Array morphology is shown to be an effective compiler writer an array annotator in action are pre ...

- 6 Technical correspondence: Using smgn for rapid protoptyping of small dor
- languages

Holger M. Kienle

September 2001 ACM SIGPLAN Notices, Volume 36 Issue 9

**Publisher:** ACM Press

Full text available: pdf(975.44 Additional Information: full citation, abst KB)

KB)

index terms

This paper presents smgn, a grammar-based tool that provides support for and automatic parse tree construction. The parse tree can be easily navig manipulated with a specific macro language while conveniently generations smgn is easy to learn and well suited for rapid prototyping of small domal languages. It is part of the SUIF compiler system, where it has been used development of the *Hoof* domain-specific language. Further ...

**Keywords**: SUIF compiler system, domain-specific language, domain-splanguage prototyping, prototyping

- 7 Re-targetability in software tools
- Premkumar T. Devanbu
  September 1999 ACM SIGAPP Applied Computing Review, Volume 7

**Publisher:** ACM Press

Full text available: pdf(756.28 KB) Additional Information: full citation, abst

Software tool construction is a risky business, with uncertain rewards. M used. This is a truism: software tools, however brilliantly conceived, wel meticulously constructed, have little impact unless they are actually adop programmers. While there are no sure-fire ways of ensuring that a tool w experience indicates that *retargetability* is an important enabler for wide paper, we elaborate on the need for retargetab ...

- 8 Understanding memory allocation of scheme programs
- Manuel Serrano, Hans-J. Boehm

September 2000 ACM SIGPLAN Notices, Proceedings of the fifth ACN international conference on Functional programming 35 Issue 9

**Publisher:** ACM Press

Full text available: pdf(821.49 Additional Information: full citation, abst KB) citings, index ter

Memory is the performance bottleneck of modern architectures. Keeping consumption as low as possible enables fast and unobtrusive applications to estimate the memory use of programs implemented in functional language the complex translations of some high level constructs, and the use of au managers. To help understand memory allocation behavior of Scheme prodesigned two complementary tools. The first one reports on frequency of

- 9 Clarity MCode: a retargetable intermediate representation for compilation
- Brian T. Lewis, L. Peter Deutsch, Theodore C. Goldstein
  March 1995 ACM SIGPLAN Notices, Papers from the 1995 ACM SIG
  on Intermediate representations, Volume 30 Issue 3

**Publisher:** ACM Press

Full text available: pdf(948.64 KB) Additional Information: full citation, citir

10 Maya: multiple-dispatch syntax extension in Java Jason Baker, Wilson C. Hsieh

# May 2002 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD Issue 5

**Publisher:** ACM Press

Full text available: pdf(152.75 Additional Information: full citation, abst KB) citings, index ten

We have designed and implemented Maya, a version of Java that allows extend and reinterpret its syntax. Maya generalizes macro systems by tre productions as generic functions, and semantic actions on productions as the corresponding generic functions. Programmers can write new generic grammar productions) and new multimethods (i.e., semantic actions), the can extend the grammar of the language and change the semantics of ...

Keywords: Java, generative programming, macros, metaprogramming

11 An extensible programming environment for Modula-3

Mick Jordan

October 1990 ACM SIGSOFT Software Engineering Notes, Proceedin ACM SIGSOFT symposium on Software development en 4. Volume 15 Issue 6

**Publisher:** ACM Press

Full text available: pdf(1.33 Additional Information: full citation, abst citings, index ten

This paper describes the design and implementation of a practical progra environment for the Modula-3 programming language. The environment an extensible intermediate representation of programs and makes extensi components. The environment is implemented in Modula-3 and exploits features of the language.

12 The undergraduate capstone software design experience

Jean R. S. Blair, Eugene K. Ressler, Thomas D. Wagner November 1997 Proceedings of the conference on TRI-Ada '97

**Publisher:** ACM Press

Full text available: pdf(1.02 Additional Information: full citation, refemble)

Additional Information: full citation, refemble index terms

- 13 Technical correspondence: Good design principles in a compiler university
- © César F. Acebal, Raúl Izquierdo Castanedo, Juan M. Cueva Lovelle April 2002 ACM SIGPLAN Notices, Volume 37 Issue 4

**Publisher:** ACM Press

Full text available: pdf(604.45 Additional Information: full citation, abst KB) citings

This paper presents what aims to be an example of good design principle compiler construction. To be more specific, it presents an interpreter of  $\varepsilon$  oriented language, called SmallScript, that has been designed to be taugh University course. Our aim is not to develop a new, revolutionary langue a spectacular advance in some research field of compiler construction. Ir teachers, we aim to offer both students and te ...

Keywords: JJTree, JavaCC, compiler design, design patterns, interpreter

14 Mutation analysis using mutant schemata

Roland H. Untch, A. Jefferson Offutt, Mary Jean Harrold

July 1993 ACM SIGSOFT Software Engineering Notes, Proceedings of SIGSOFT international symposium on Software testing and '93, Volume 18 Issue 3

**Publisher:** ACM Press

Full text available: pdf(872.48 Additional Information: full citation, abst KB) citings, index ten

Mutation analysis is a powerful technique for assessing and improving the data used to unit test software. Unfortunately, current automated mutation suffer from severe performance problems. This paper presents a new me mutation analysis that uses program schemata to encode all mutants for a metaprogram, which is subsequently compiled and run at speeds substant achieved by ...

Keywords: fault-based testing, mutation analysis, program schemata, so

# 15 Towards automatic construction of staged compilers

Matthai Philipose, Craig Chambers, Susan J. Eggers

January 2002 ACM SIGPLAN Notices, Proceedings of the 29th ACM SIGACT symposium on Principles of programming language Volume 37 Issue 1

**Publisher:** ACM Press

Full text available: pdf(269.51 Additional Information: full citation, abst KB) citings

Some compilation systems, such as offline partial evaluators and selective compilation systems, support staged optimizations. A staged optimization logically single optimization is broken up into stages, with the early stage preplanning set-up work, given any available partial knowledge about the compiled, and the final stage completing the optimization. The final stage faster than the original optimization by having much of its work ...

16 Compiling scheme to JVM bytecode:: a performance study

Bernard Paul Serpette, Manuel Serrano

September 2002 ACM SIGPLAN Notices, Proceedings of the seventh A international conference on Functional programming 37 Issue 9

**Publisher:** ACM Press

Full text available: pdf(298.96 Additional Information: full citation, abst KB) citings, index ten

We have added a Java virtual machine (henceforth JVM) bytecode gener optimizing Scheme-to-C compiler Bigloo. We named this new compiler have used this new compiler to evaluate how suitable the JVM bytecode compiling strict functional languages such as Scheme. In this paper, we performance issue. We have measured the execution time of many Scher compiled to C and when compiled to JVM. We found that for each bencl

Keywords: Java virtual machine, compilation, functional languages, sch

17 Caching function calls using precise dependencies

Allan Heydon, Roy Levin, Yuan Yu

May 2000 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD

Issue 5

**Publisher:** ACM Press

Full text available: pdf(243.57 Additional Information: full citation, abst KB) citings, index ten

This paper describes the implementation of a purely functional programs building software systems. In this language, external tools like compilers invoked by function calls. Because some function calls are extremely explosiously important to reuse the results of previous function calls whene Caching a function call requires the language interpreter to record all val function call depends. For optimal caching, it is i ...

18 <u>Technical correspondence</u>: <u>Implementing a real computational-environment</u>

develop a runtime-adaptable reflective platform

Francisco Ortín, Juan Manuel Cueva

August 2002 ACM SIGPLAN Notices, Volume 37 Issue 8

**Publisher:** ACM Press

Full text available: pdf(714.89 Additional Information: full citation, abst KB) citings

Different techniques are emerging in order to build adaptable computing software engineering methods. Two examples in the software engineerin oriented programming and multi-dimensional separation of concerns. Th functional code from reusable crosscutting aspects, creating the final app the program and its specific aspects. They lack runtime adaptability, sim time adaptation. Dynamic adaptability is offered by ...

**Keywords**: aspect-oriented programming, generic interpreter, meta-obje reflection, runtime adaptability

19 Accurate static estimators for program optimization

Tim A. Wagner, Vance Maverick, Susan L. Graham, Michael A. Harrison June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLA on Programming language design and implementation PLD Issue 6

**Publisher:** ACM Press

Full text available: pdf(1.04 Additional Information: full citation, abst

# MB)

citings, index ten

Determining the relative execution frequency of program regions is essemportant optimization techniques, including register allocation, function instruction scheduling. Estimates derived from profiling with sample inpuregarded as the most accurate source of this information; static (compile considered to be distinctly inferior. If static estimates were shown to be a however, their convenience would outweigh minor ...

20 Implementing incremental code migration with XML

Wolfgang Emmerich, Cecilia Mascolo, Anthony Finkelstein
June 2000 Proceedings of the 22nd international conference on Softwar
Publisher: ACM Press

Full text available: pdf(124.85 Additional Information: full citation, abst KB) citings, index ten

We demonstrate how XML and related technologies can be used for cod granularity, thus overcoming the restrictions of existing approaches. By particular granularity for mobile code, we enable complete programs as lines of code to be sent across the network. We define the concept of inc mobility as the ability to migrate and add, remove, or replace code fragm increments) in a remote program. The combination of fine-grain ...

Keywords: XML technologies, incremental code migration

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